

**METHOD AND APPARATUS FOR IMPROVING THE
OPERATION OF A REMOTE VIEWING DEVICE**

ABSTRACT

The present invention features a remote viewing device that is capable of improving its operation by removing slack in its control cables and/or by increasing the range of motion of its viewing head. In one embodiment, the method for improving the operation involves removing at least a portion of the slack in at least one control cable attached to a servo motor. The removal of at least a portion of the slack includes changing the position of a servo motor relative to a flexible tube termination block until a specified tension is encountered in at least one of the control cables. The method further includes determining first and second servo control signal values corresponding to no angular deflection and a specified deflection in a viewing head.